IN THE CLAIMS

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Please cancel claims 9 and 10 without prejudice.

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1. (Original) A system for communicating an analog input signal as a modulated binary laser signal over a communication medium recovered as an output digital signal, the system comprising

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a sigma delta modulator for receiving the analog input signal and modulating the analog signal into a modulated symbol signal,

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a transmitter for converting the modulated symbol signal into the modulated binary laser signal, and for transmitting the modulated binary laser signal over the communication medium,

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a receiver for receiving and detecting the modulated binary laser signal for providing a received symbol signal, and

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a digital filter for filtering the symbol signal into the digital output signal.

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2. (Original) The system of claim 1 wherein the transmitter comprises,

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a symbol to binary converter for converting the modulated symbol signal from the sigma delta modulator into a converted digital signal, and

a pulse width modulator for modulating the laser signal by the

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digital signal, and

communication medium.

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converted digital signal into the modulated binary laser signal as

a pulse width binary modulated laser signal communicated over the

(Original) The system of claim 2 wherein the receiver 1 2 comprises, 3 a pulse width detector receiving the pulse width modulated binary laser signal and for providing a detected bynary signal, and 4 a binary to symbol converter for converting the detected binary 5 signal into the received symbol signal. 6 7 8 4. (Original) The system of claim 3 wherein, 9 the pulse width detector is a pulse width quantizer detector, 10 the detected binary signal is/a detected quantized signal, 11 the binary to symbol converter converts the detected quantized 12 signal into the received symbol signal. 13 14 15 The system of claim 1 further comprising, 16 5. (Original) 17 a timing recovery/loop for generating a timing signal from the receive symbol signal for clocking the digital filter. 18 19 20 6. (Original) The system of claim 1 wherein, 21 22 the sigma delta modulator is a first order sigma delta modulator. 23 24 25 7. (Origi/nal) The system of claim 1 wherein, 26 thé sigma delta modulator is a second order sigma delta modulator. 27 28

8. (Original) The system of claim 1 wherein the communication medium is a fiber optic. 3 9. (Canceled) The transmitter of claim 1 wherein the pulse width 4 modulated laser signal is an on off shift keying/signal. 5 6 10. (Canceled) The transmitter of claim 1/ wherein the modulated 7 signal is a phase shift keying signal. 8 9 11. (Original) A system for communicating an analog input signal as 10 a pulse width modulated binary laser signal over a communication 11 medium recovered as an output Aigital signal, the system comprising 12 13 a sigma delta modulator for receiving the analog input signal and modulating the analog/signal into a modulated symbol signal, 14 a transmitter for converting the modulated symbol signal into 15 16 a converted digital signal for pulse width modulating a laser signal into the pules width modulated binary laser signal, and for 17 transmitting the pulse width modulated binary laser signal over the 18 19 communication medium, a receiver for receiving and detecting the pulse width 20 modulated binary laser signal to provide a detected binary signal 21 22 and for converting the detected binary signal into a received 23 symbol signal, and 24 a digital filter for filtering the symbol signal into 25 the digital output signal. 26 27

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